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Iowa Agriculturist 65.03

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Iowa State University

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Iowa State University

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IOWA

agriculturist

Vol. 65, No. 3
November, 1964

FOR FUTURE LEADERS IN AGRICULTURE

Autumn Beauty

A young woman with short, light-colored hair is smiling and looking towards the camera. She is wearing a dark, long-sleeved shirt and a plaid skirt. She is holding a large ear of corn in her hands. The background is a field of tall corn stalks, and the entire image has a warm, orange-brown tint.

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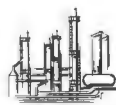
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Iowa Agriculturist

Support All-Ag Banquet

WITH BORROWED SKIRTS and rolled hose, Professors Fordyce Ely, Dairy Husbandry, and R. C. Bentley, Agricultural Economics, sang and danced formality into oblivion once and for all. The year—1928. The occasion—the first annual All-Ag Banquet.

The banquet was a new idea to members of Ag Club—the forerunner of Ag Council. Some were dubious, others skeptical, but all were willing to make it a success or bust. They struck an arc which they hoped would weld together for all time, all students from all Ag Departments.

What these students so energetically started, others have continued. Down through the years the All-Ag Banquet has been a distinctive highlight of the Ag College. Henry Wallace, former Vice-President of the United States, John Hannah, President of Michigan State University, Wheeler MacMillan, retired member of the Farm Journal staff, and many others are on the list of outstanding Ag Banquet speakers.

This year's banquet, to be held Dec. 15 in the Memorial Union, will be no exception. Co-chairman Fred Ry-

der, D.I. 3, and Jerry Retzlaff, Ag. Ed. 3, have organized the program and added several new awards to flavor the 1964 Banquet.

New this year will be an award to a special guest. Also new are two Alpha Zeta Awards to last year's outstanding freshmen. The Outstanding Club Award will again be given, and all clubs except Ag Education, which won last year, are eligible. Of course, the Real Guy Awards, originated three years ago, are again featured. These four awards are for men who have not received outstanding recognition previously, but are always "Johnny on the Spot," whenever their club needs them.

This year's guest speaker is Dr. James H. Jensen, President of Oregon State University. Dr. Jensen, formerly an instructor and Provost at Iowa State University, has spent his entire career working with students at Land Grant Colleges and Universities.

The All-Ag Banquet is something you won't want to miss. Food, fun and awards will highlight the show. Remember parents and friends are welcome.

IOWA agriculturist

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No. 3

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OUR COVER

Autumn is the most beautiful time of the year. Harvest Nocturne Queen, Kathy Williams, proves this and receives our vote for Iowa's prettiest Corn Picking Coed. Queen Kathy, E & S 3, a Des Moines native, would make any harvest a real delight. To the fields, anyone—

Collegiate Corner

by Jerry Schwien, Co-Editor

PARACHUTING AUTUMN LEAVES have completed their annual sky-diving finale and assumed the common destiny of other Iowa State University finals—complete disintegration.



Schwien

In this case campus leaf choppers replaced professors as the destructive force that ripped a seeming work of art into shreds. Iowa State's great variety of leaves, must, as the New York Yankees, wait until next year to gain redemption.

But for the rest of us, the ninth inning is still approaching. Finals count a lot at Iowa State, and if you time your studies correctly, that last swing could loft your ball into the upper deck or at least produce a game-saving single. So everyone study up for "the week that will be," November 19-24.

As important as studying is, it alone doesn't always

make the difference, however. Eating habits are also mighty important, according to Dr. Emmitt Haynes, animal science. If you are getting poor grades in your 1:00 or 2:00 o'clock classes, Haynes suggests a possible remedy might be eating a high protein breakfast. As a consequence, you will not feel like eating as much at noon and will not become stuffed and groggy after lunch. Therefore, you will take better notes. Of course, this does not insure a good grade without studying, but it might be a helpful hint if you find yourself studying hard and still flunking.

If you try Dr. Haynes' suggestion and still cannot pass Iowa State exams, turn to page twelve of this month's Iowa Agriculturist. Here you will find another test. But you have an advantage on this one. We guarantee to flunk no one; this is one exam given solely for your enjoyment.

Whatever might happen during finals, the Iowa Agriculturist staff wishes all of you a hearty Thanksgiving. And if you skip breakfast Thanksgiving morning, so that you can eat an extra piece of pumpkin pie and fluffy whipped cream with your dinner, we don't think Dr. Haynes will mind. But don't come crying to us if you miss a 90-yard Johnny Unitas' pass, while catching 30 winks in front of the TV set.

From this Point of View

by Gary Sheppard, Co-Editor

With the harvest season now in full swing and Indian summer pervading the campus, I imagine many of us in the agriculture college are torn between two loves. Assuming most of us love the farm and certainly love school (hmm), it's hard to choose just what's best to do on weekends.

Now we're on the downhill side of this first quarter, and I'm still trying to figure out how I can be a full quarter behind in studies and the quarter isn't even over yet. As usual, I was two weeks behind during the first week of the quarter.

Agriculture college activities are in full swing with a successful Autumn Cotillion and Freshman Reception already on the record and committees hard at work on the December 15 All-Ag Banquet. Departmental clubs are smoothly functioning and most have already elected a new set of officers. Outstanding club awards and Real Guys in agriculture are now being pondered in commit-

tee and will be presented during the All-Ag Banquet.

The AGRICULTURIST staff will be represented by several delegates at the Agricultural College Magazines, Associated convention in Chicago during Thanksgiving vacation. Seminars, speakers and mutual problem discussions take up most of the time. Ag magazines from such diverse areas as Tennessee, Montana, Texas, Ohio and others will be represented by staff members and advisors.

The convention sessions serve as a sort of clearing-house for airing mutual problems of magazine editorial and business staffs and tend to shore up some of the doubts new staff members may have as they take up where old members leave off.

Don't forget that final week is hard upon us and now's the time to reassure that fidgety teacher that you'll get his darn term paper in with time to spare.



Sheppard



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Agriculture 450 Helps Train

by Jerry Schwien
Co-Editor

Tomorrow's Farmers And Farm Managers

THE AGRICULTURE 450 farm has probably had more managers than corn borers. Four times a year, this 230 acre corn-belt lab receives a new group of farm managers. These are students enrolled in the Farm Operation Curriculum at Iowa State University.

Prof. James Wallace says, "Agriculture 450 is the only Farm Operation course in the world where students make all the management decisions. It helps prepare these students to advance in a changing agriculture, by coordinating and putting into practice the training they receive in animal science, agronomy, ag economics, and ag engineering courses." Wallace alternates with Jack Alexander, manager of the University's Foundation Farms, as the course's instructor.

The '450' farm program is divided into six enterprises for management purposes. They are buildings and equipment, crops and soils, cattle, swine, finance, and planning. Emphasis is placed on how to apply management principles that could be useful in any farm operation, rather than on finding the most profitable program for the Ag 450 farm specifically. Each student selects the enterprise he wants to manage.

The course was started in 1943 with Dr. William Murray, economics, as instructor. Since that time the farm has shown a profit in all but two years. The highest return was a net income of \$18,406 in 1947, and the greatest loss was a deficit of \$10,612 in 1955. This speaks well for the students who have managed the farm, and also for the instructors who have given advice.

Wallace says that with increased technology and specialization, management is becoming a more vital part of farming. However, more than 85% of Iowa's tenant operated farms are not under competent management. Wallace hopes that AG 450 students will gradually reduce this figure as they move back into agriculture as farm operators or farm managers.

But will these students find a place in today's agriculture? What are the chances of students going back to the farm or going into commercial farm management? If a student is to get started in farming, he usually finds it necessary to begin under a "father-son" or some similar type partnership. Otherwise he becomes bogged down in debts.

Surveys conducted at Iowa State indicate that if the present rate of farm consolidation continues, Iowa will need 3,200 to 3,800 farmer replacements each year for the next 15 years. High school graduates move onto about 2,800 Iowa farms every year. This leaves at least 400 farms for college grads, if they can find the necessary equipment and an ample source of low interest capital.

Additional ISU statistics collected over the last 30 years indicate that 20% of the agriculture graduates are actively engaged in farming or com-

mercial farm management. Of this amount, about 10% returned to the farm immediately following graduation. The remaining 10% entered fields closely related to farming, such as teaching, extension work, agricultural business and government service.

For those of you aspiring to become professional farm managers, Wallace recommends getting all the experience you can. "Ag 450 is a good course, but farm tenants are skeptical of a young college 'sprout' and his ideas," he said. "A few years' experience in working with farmers in some other capacity helps," he added.

The experience will enable you to handle more farms and make fewer mistakes. A good farm manager should be able to handle from 40 to 60 farms at a time. He usually receives 10% of the gross income going to his client, and this averages out to about \$400 per farm, or a possible \$16,000 to \$24,000 per year for a top-notch manager.

Today's farming requires attention and know-how. Ag 450 is helping to train the farmers and managers of tomorrow. As it provides practical knowledge for a career which offers great opportunity, Iowa State's largest lab is proving that it truly is not a dry run.

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do you
picture
yourself
tomorrow?



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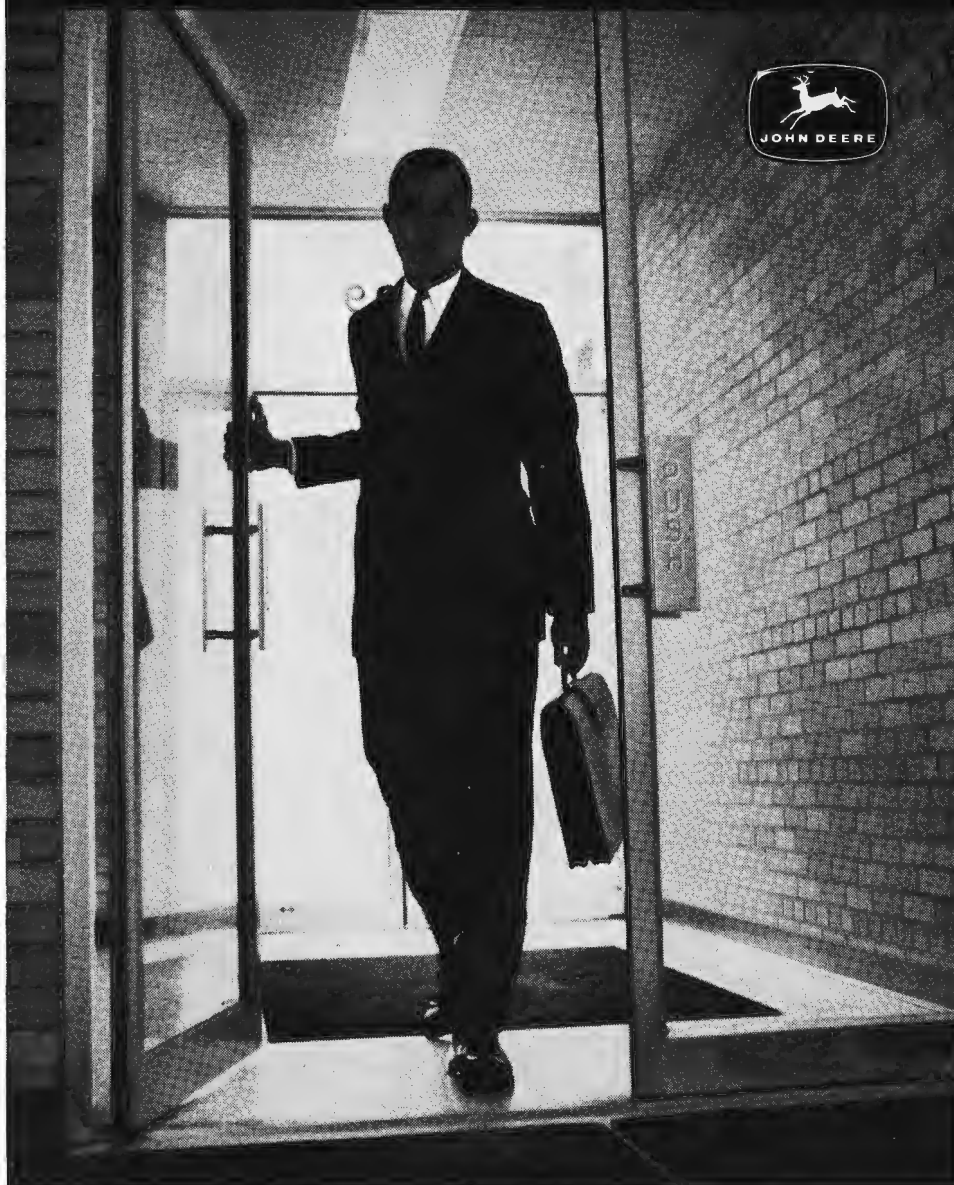
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Donald Mordhorst, An. S. 2, won this year's Little International swine showmanship trophy. Don is from Soldier, Iowa, where he and his father raise and show Purebred Spotted Poland Chinas, Durocs and Hampshire hogs.

John Cherveney, ME 1, was the Reserve Grand Champion Showman after winning the Beef Showmanship award. John is from Van Horne, Iowa.



The Little International Horse Showmanship Trophy went to Phil Stepp, An. S. P. V. 1, from Kellogg, Iowa. Phil has shown ponies since he was big enough to ride. He has shown horses at the State Fair and all over Iowa. His family raise Quarter and Appaloose horses.

Showmanship R

by Dennis Woodward, Dy.S. 4

LITTLE INTERNATIONAL has come a long way from the time when farm produce was used for admission.

Originally established to acquaint students with the high caliber livestock owned by the College, Little International has grown into one of the best "showmanship" contests in the United States.

The blare of bugles and the roll of professors' voices opened the first Little Internation in October of 1914. Prof. C. M. Arnett, animal science, and P. S. Shearer, a graduate student in animal science, developed the idea and helped Saddle and Sirloin Club run the first show. The contest was fashioned after the annual International Livestock Exposition in Chicago.

In 1919 the newly formed Block and Bridle Club took over the guidance of the Little International, and an admission was charged. Farm produce or money was collected to help support the Iowa State judging teams.

The show was held in late October or early November in early years, but in 1935 the date was set back to February. This combined the contest with the Farm and Home Week, an annual College event. At this time Little International was still a one day affair. The dairy preliminaries were held in the afternoon at the Dairy Farm, and the other preliminaries and finals were held



The Winners

Reigns Supreme

that evening. The dairy animals had to be walked into campus from the farm, which presented a problem, to both leader and animal, of staying on his feet in the snow and ice.

With the addition of the Milk Maid contest and the 4-H and FFA Judging Contests, it became necessary to have the dairy show on Friday night and the all-meats preliminaries on Saturday morning. The first Milk Maids were judged on the amount of milk procured and nothing else. Miss Christie Eyres, Sigma Kappa, this year's Milk Maid winner can testify that the qualifications and competition has become tougher. Miss Eyres won out over a record number of 19 entries by two tenths of a point. Runner-up with 75.3 total points out of a possible 100, was Miss Betsy Kuhn of Alpha Chi Omega. Contestants are now judged on the amount of milk they procure; appropriate attire for a Milk Maid, affection of the Milk Maid for the cow, affection of the cow for the Milk Maid, and their residence's participation.

This year the Dairy Division added a new trophy called the M. C.'s Trophy. Oak Hall walked away with it by turning out in force and exhibiting loud vocies.

Dr. Donald R. Warner, animal science, won this year's Little International dedication for his outstanding service to Block and Bridle, Little International and his students.



Milk Maid Christie Eyres, Sigma Kappa, presents Miss Barb Heikens, Bioch. 1, with overall Champion showmanship trophy. Miss Heikens from Spencer, Iowa, also won the sheep showmanship award.



Miss Betsy Kuhn, Alpha Chi Omega, scored 75.3 out of a possible 100 points to finish second in the Milk Maid contest. Showing affection for the cow adds important points to her total score.



Al French, Chem. 4, asks about the merits of Ralston Purina, as that company's representative, Milt Carron visits Iowa State in search of future employees.

by Bob Dunaway

Bob is a junior, in Ag Journalism from Monroe, Iowa. He, his wife Judy, and daughter Lynn live at 676 Pammel Court.

AFTER HE'S SPENT four years studying and at least \$6,000 hard cash, Iowa State's agriculture graduate anxiously awaits his first job, dreaming of a crowning reward for his efforts. The job interview is the initial step toward realizing his reward.

Jerry Ladman, placement officer for ISU's College of Agriculture, says, "The job interview gives you a chance to become acquainted with different companies and gives the companies a chance to know you. Be prepared for your interviews, so you can put your best foot forward."

Ladman went on to say that today's demand for agriculture graduates far exceeds the supply. Business and industry are offering more jobs to agriculture graduates than ever before.

Ladman points out that there are three parts to the successful interview: preparation, the interview and the follow up.

How It's Done

Job Hunting

First, set up the time for your interview. A list of companies who will be interviewing is posted on a bulletin board outside Room 121 in Curtiss Hall. Sign-up sheets for interviews are put on this bulletin board about a week before the interviewer arrives. Be sure your name is on the sheet early. Most companies only interview at Iowa State two or three times a year, so you may not get a second chance, according to Ladman.

Next, prepare a resume about yourself. It should list qualifications to focus the interviewers attention on your fitness for a job.

W. J. Hatch, interviewer for John Deere Company, said one of the most important points is how well the interviewee has appraised himself. What are his objectives? What type job does he want? Does he realize his weaknesses? These questions must be answered on the resume form or brought out in the interview itself.

Ask Intelligent Questions

Your next step should be to find out all you can about the company. Be ready to ask pertinent, intelligent questions. Don't go into the interview "blind." During the interview you will want to learn still more about the company. However, don't try to get a complete history of the company. The interview only lasts 30 minutes, and you want to have time to sell yourself.

Finally, be sure your appearance is "top-notch." Interviewers are often influenced by appearances. W. E. Smith, interviewer for the Agri-Chemical Division of Swift & Co. for 16 years, said the first 20 to 30 seconds of each interview can be the most important.

"Relax and give the interviewer a firm handshake," suggests Smith. "Look him straight in the eye when you talk to him." He says a man who does this has a head start on the nervous young man who holds out a cold-fish, limp hand. Confidence but not cockiness is the key.

In addition, be on time. Tardiness, not only shortens your interview, but it also leaves a bad impression with the interviewer.

During the interview, ask questions you want to know about the company. Use the interview as a two way street. Sell yourself to the company and let the interviewer sell his company to you.

"I look for a person with an alert, keen mind, who is enthusiastic about any project he sets out to accomplish," says Hatch. He suggests that you don't joke or laugh too much. Be courteous, sincere and friendly.

Evaluate Your Interview

Before you leave the interview, leave the resume you have prepared and be sure you know when you can expect to hear from the company. Don't draw out the interview. Take only the time allowed unless the interviewer wants to take longer.

Now, even though the interview is officially completed, you aren't through. Evaluate yourself to determine how you handled the interview. Make notes on what you can do to prepare for the next interview with the company or with another company.

Of course you may not get a job from your first interview. John Deere and Company interview about 120 men from Iowa State every year and only offer jobs to 15 or 20. The USDA Agricultural Marketing Service only expects to hire one or two men from Iowa State each year.


Don't Back Out

However, if you are offered a job, you will probably be invited to the company plant to go through more interviews and take tests. Once you accept an offer don't back out, says Ladman. You can usually wait two or three weeks before accepting a job, so take this time to make sure you want it. Make an agreement with the employer about the exact length of time he will allow for you to decide.


Roy Plant, interviewer for the U.S.D.A. Agricultural Marketing Service, agrees with Smith and Hatch that grades are not the most important thing, but they can make a difference. Plant would rather have someone who is aggressive and spunky than simply a person with high grades.

The main points to remember are: (1) take time to prepare for the interview, and (2) don't wait until you're about ready to graduate to start looking for a job. If you start early, you will have a better chance of finding the job you want.

Follow these clues and your chances of getting a job you are likely to enjoy will greatly increase. The time, effort and money spent for your college education will seem well rewarded if you have a firm grip on a good job contract before you graduate.



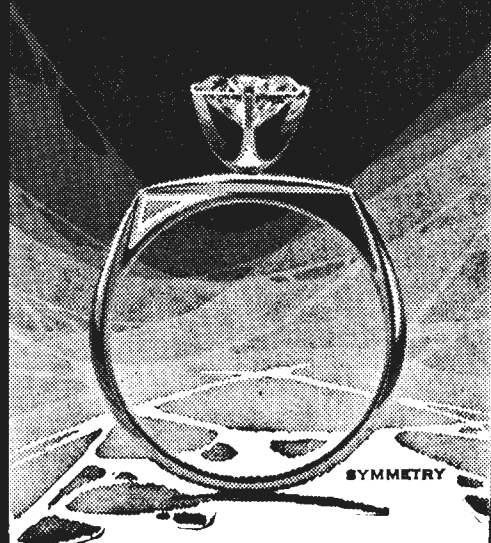
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Test Your Wit

- (1) If you went to bed at 8:00 at night and set the alarm to get up at 9:00 in the morning, how many hours sleep would you get?
- (2) Why can't a man living in Winston Salem, North Carolina, be buried west of the Mississippi River?
- (3) If you had only one match and entered a room in which there was a kerosene lamp, an oil burner, and a woodburning stove, which would you light first?
- (4) A man builds a house having four sides and being rectangular in shape. Each side has a southern exposure. A big white bear wanders by. Where is the house?
- (5) How far can a dog run into the woods?
- (6) I have in my hand two U.S. coins which total 55 cents in value. One is not a nickel. What are the coins?
- (7) A farmer had 17 sheep. All but nine died. How many did he have left?
- (8) Divide 40 by $\frac{1}{2}$ and add 10. What is the answer?
- (9) Two men are playing checkers. They play five games and each man wins the same number of games. How can this be?
- (10) Take two apples from three apples and how many apples do you have?
- (11) An archeologist claimed that he found gold coins dated 46 B.C. Do you think he did? Give reason for your answer.
- (12) A woman gives a beggar 50 cents. The woman is the beggar's sister, but the beggar is not the woman's brother. How can this be?
- (13) How many animals of each species did Moses take aboard the ark?
- (14) Is it legal in Texas for a man to marry his widow's sister?
- (15) What word on this test is miss-spelled?
 12 correct—Genius
 8 correct—Normal
 6 correct—Sub-normal
 4 correct—Suitable for professors

Laugh A While

It was the first date.

"Cigarette?"

"No, thank you. I don't smoke."

"Let's go down and sip a few."

"I'd rather not. I never touch liquor."

"Let's go out to Brookside for a while."

"No, please don't. I want to go out and do something exciting, something new."

"O.K., let's go out to the dairy barn and milk heck out of a couple of cows."

✓ ✓ ✓

Rife: "Let's cut Physics today."

Moore: "Can't, I need the sleep."

✓ ✓ ✓

Q. What's brown and hops from bed to bed?

A. Elizabeth Toad.

✓ ✓ ✓

Do you know we've had news censorship ever since Adam and Eve? Or do you really believe Eve tempted Adam with an apple?

Answers for Test Your Wit

(1) One hour. (2) He's living. (3) The match. (4) North Pole. (5) Half way, then he's running out. (6) A nickel and a fifty cent piece; only *one* is not a nickel. (7) Nine. (8) 90. (9) They are not playing each other. (10) You have two apples. (11) No. The printer couldn't have known when Christ would be born. (12) The beggar is a woman. (13) None. It was Noah. (14) Texas law makes no mention of ghosts. (15) Miss-spelled should be misspelled.

The Campus March of Agriculture

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Landscape Architecture

OFFICERS:

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V. Pres.—Kenneth Raithel
Secy.—LaVonne Sanders
Treas.—Bill Sanders

ADVISOR:

Mr. Burl Parks

Zoology

OFFICERS:

Pres.—Cal Rayburn
V. Pres.—Larry Steenhoek
Secy.—Ken Marcellus
Treas.—Loren Bates

ADVISOR:

Dr. Benton Buttrey

Note: DFI had not elected new officers at press time.

Editor's Note:

Mr. and Mrs. Ron Patrick, ISU Peace Corps volunteers, send message from Uruguay on the following page.

March of Agriculture

Dear Amigos,

SINCE the first letter we sent way up north to you all in Yankeeland, we've come to realize that we made the right choice one year ago when we accepted our Peace Corps assignment to Uruguay. We entered the training program 27 days after our wedding and have been faced since that time with a mutual challenge. This mutual challenge, we feel, has been (and still is) an invaluable experience in helping us adjust to married life.

To relate that challenge to you we must tell of our purpose here and what means we are employing to try to accomplish that purpose. *Generally*, our purpose is to be of some help in increasing production in Uruguay's agriculture and home economics, two basic importances in life here because of the lack of industries. It has only been recently that we have realized our real *specific* purpose, even though we previously had some scattered thoughts about it. That purpose in few words is, in working with rural youth clubs, to help the youth set up effective organization that will lay the groundwork for increasing educational and productive-type project work.

Since we have realized our exact purpose, we have intensively tried to pursue it through various means. Believing that one of the principal deficiencies here is record keeping, we made copies of several different 4-H type record books. We now have completed, and have in the hands of several club members, the following record books: truck gardening, crops, poultry, tanning of furs, small fish breeding, decorative plants and flowers, sewing, embroidering, knitting and cooking. Some change from Iowa corn and Nebraska wheat! We hope these record books will be educational and profitable for the members in providing a means for them to see their mistakes, their profits and results of good management practices.

Another problem which came up was trying to establish ideal working relationships with the people. For example, the situation that exists between the very capable leader in our base club and us. . . . first of all, when we arrived here he expected us to be very technically trained experts. It took a few months for that idea to be discarded. Then he thought we couldn't do much of anything here, but we could at least acquaint the people of the U.S. with Uruguayans after we left here. Then one day he asked us what our exact goal was for the coming club year. We quickly responded: "To get every member of the club to take

and complete at least one productive project this year." Since many of the members at that time had never completed any projects, he seemed elated and told us that if we could accomplish that, we would really have done something and would be appreciated greatly. Well, after that we completed the task of getting all members to sign a paper promising that they would complete a project, record book, etc. We then helped reorganize the club into the four sections and thought things were really rolling along smoothly, with every member having a project. Then the other night the leader came up with the idea that nothing much had been done because hardly anyone, in his opinion, had a real project because his definition of a project is a thing that will—by the end of the year—produce a sure profit and very soon be developed into a small enterprise. This was his stipulation, not only for the boys but the girls also. Those girls in home canning projects should desert their ideas of home canning and convert them into commercial canning. This was his idea for those girls who hadn't even accomplished the home canning yet. After further frank discussion and thought we conceded to him that his theory is really the kind of thing that Uruguay needs in order to progress. However, several days later he came to our house and said that he also conceded to us that some of our methods were good. As a final analysis of our relations with this leader, we are sure that we are finally breaking through much of the barrier of misunderstandings, greatly caused by past language and communications shortages.

As we now and then make advancements in our work by breaking through some of the barriers, such as language, we also confront some barriers that we have no control over and will never ourselves be able to conquer. One of these barriers was set up for us just recently by Uncle Sam himself, or shall we say by whomever makes U. S. Public Law 480 decisions. . . . The point in mention here is the fact that recently the U. S. has decided to sell cheap, subsidized meat to parts of Europe and Israel. It so happens that these mentioned places are market places for Uruguay's meat. The meat and wool export industries are the life-blood of Uruguay's economy, and the Uruguayos are now saying, and looking at us rather questioningly, "First you Yankees knocked us out of a market in Canada, next in Chile, and now in Europe and Israel. How can a little

country like us survive when you big Yankees keep dumping your subsidized surpluses in our markets, thus creating little or no demand for our products?" We don't know what to tell them, however, we did tell them we'd write for explanations. So that's just what we're doing now—asking you, and all U. S. citizens who are responsible for our foreign policy. What do we tell them?

Well, we don't want to get too deeply into economics for now, but we want to say that it is no little thing. We can't just send frosting of dollars in aid and expect that to suffice, because one can't use the frosting without the cake, i.e., firm economy. The following are examples of Uruguay's unstable economy: Not long ago the Uruguayan peso was worth almost a dollar; now it is worth about five cents. When we arrived in Uruguay, we paid three pesos per kilogram (15c for 2.2 lb.) of meat; now we pay seven pesos (35c) for the same. This trend has been representative of prices of many necessities. This is no hardship for us. We live on a *very* adequate Peace Corps living allowance. But this is a hardship for the country laborer who received twenty pesos (\$1) per day when we arrived and today is *still* receiving twenty pesos per day. Perhaps this is not true in the more industrialized sites in Uruguay where the laborers have unions which, we have been told, reverse the situation.

In spite of the differences we can see between the people here and ourselves, we wouldn't trade our little host country for any other in the world.

Very sincerely,

Gloria and Ron Patrick
Peace Corps Volunteers

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

(Act of Oct. 23, 1962; Section 4369, Title 39, United States Code)

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(Signed) Marlin Smalling
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Shhh! **Enginuity at work!**

That's Bill Emrich immersed in his work behind that Lincoln engine. He's testing new oil additive formulations, designed to make new engines produce to their potential. Yet, whatever he develops has to meet the needs of older engine models, too. You might say it's a matter of *enginuity*.

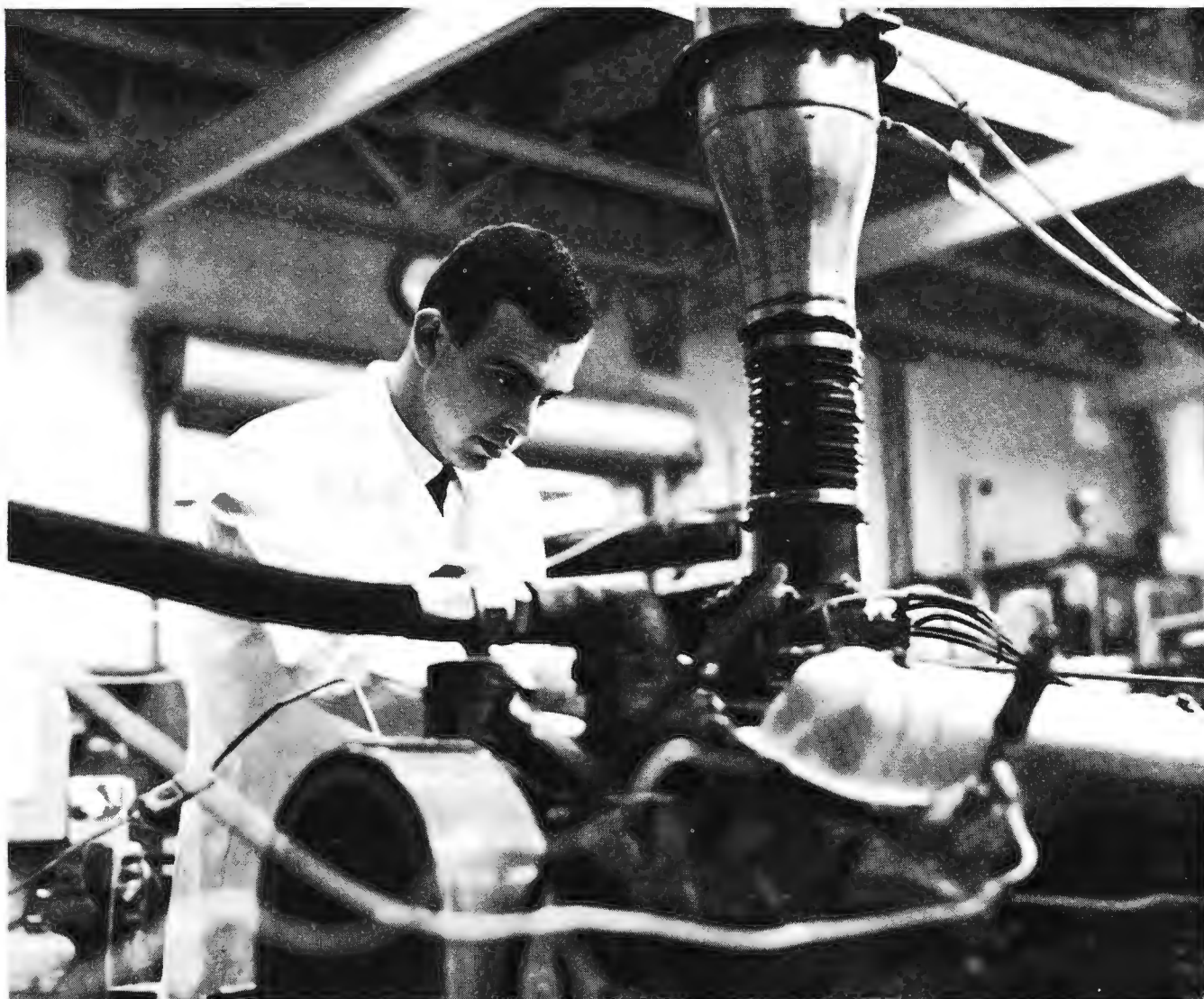
Bill uses several test engines: among these are a Labeco one-cylinder, a Caterpillar one-cylinder and special Lincoln and Oldsmobile engines. He tests oil additives and formulations for sludge, rust, wear and reaction to high-temperatures under severe operating conditions. His findings will help car owners to get greater mileage between oil changes, longer engine life. A most important project. Yet, Bill is only 24 years old. Just last year, he came to American Oil and is now working for Amoco

Chemicals, a sister company. Bill graduated from the University of Illinois with a B.S. degree in mechanical engineering.

The need for young professional people in positions of responsibility and creativity is great. Bill happens to be an automotive engineer, but he still might be working for us had he chosen a different field—mathematics, physics, chemistry. A variety of opportunities exist here at American Oil Company.

For information, write to J. H. Strange, American Oil Company, P.O. Box 431, Whiting, Indiana.

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